

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
13445-007001Application No.  
10/090,903**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant  
Max Schurgalin et al.Filing Date  
March 5, 2002Group Art Unit  
2874

(37 CFR 1.98(b))

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
TN	AA	4,890,915	1/2/1990	Byvik et al.	356	73	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature

TN

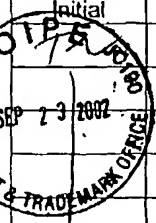
Date Considered

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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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### U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate	
	AA	3,982,816	09/1976	Watkins				
	AB	4,067,651	01/1978	Watkins				
	AC	4,081,258	03/1978	Goell et al.				
	AD	4,236,904	12/1980	Lazay				
	AE	4,583,851	04/1986	Yataki				
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	TN	AM	6,008,487	12/1999	Tachikawa, et al.			
	—	AN						

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	AP							
	AQ							

### Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
TN	AR	T. A. Birks et al., "Full 2-D photonic bandgaps in silica/air structure," Electronics Letters, Vol. 31, No. 22, pp. 1941-1943, October 26, 1995.
TN	AS	Y. Fink et al., "Guiding optical light in air using an all-dielectric structure," Journal of Lightwave Technology, Vol. 17, No. 11, pp. 2039-2041, November 1999.
TN	AT	Stig E. Barkou et al., "Silica-air photonic crystal fiber design that permits waveguiding by a true photonic bandgap effect," Optics Letters, Vol. 24, No. 1, pp. 46-48, January 1, 1999.
TN	AU	J. C. Knight et al., "Photonic band gap guidance in optical fibers," Science, Vol. 282, pp. 1476-1478, November 20, 1998.

Examiner Signature

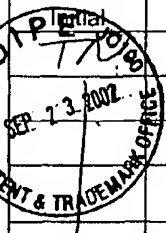
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner	Desig. ID	Document
	AV	2001 OmniGuide Long-Haul Fiber, OmniGuide Communications Inc., Cambridge, MA
	AW	P. Yeh et al., "Theory of Bragg fiber", J. Opt. Soc. Am., Vol. 68, pp. 1196, 1978.
	AX	Abushagaur M.A. G. et al., Applied Optics, Vol. 19, pp. 2031, 1980.
	AY	C. Martijn de Sterke et al., "Differential losses in Bragg fibers," J. Appln. Phys., 76 (2), pp. 680-688, July 15, 1994.
	AZ	Steven G. Johnson et al., "Low-loss effectively single-mode propagation in large-core OmniGuide fibers."
	AAA	J. C. Knight, et al., "Properties of photonic crystal fiber and the effective index model", J. Opt. Soc. Am. A, 15 (3): 748-752 (1998).
	ABB	R. F. Cregan, et al., "Single-mode photonic band gap guidance of light in air", Science, 285: 1537-1539 (1999).
	ACC	

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